

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1-10. (Cancelled)
11. (New) A process for the purification of aliphatic diamines, comprising the step of
 - a) carrying out an hydrogenation treatment on the diamine in a medium in the presence of a catalyst comprising platinum, palladium, ruthenium, rhodium, iridium, nickel or cobalt, and
 - b) recovering of the purified diamine.
12. (New) The process according to Claim 11, wherein in step a) the catalyst of the hydrogenation is a supported catalyst, the support of the catalytic element being charcoals, titanium, zirconiumoxides, magnesium oxides, or alumina.
13. (New) The process according to Claim 11, wherein in step b), the diamine is extracted from the medium of step a) after having preformed a hydrogenation by distillation.
14. (New) The process according to Claim 12, wherein in step b), the diamine is extracted from the medium of step a) after having preformed a hydrogenation by distillation.
15. (New) The process according to one claim 11, wherein in step a) the medium is a reaction medium resulting from the synthesis of the diamine.

16. (New) The process according to Claim 15, wherein the synthesis of the diamine is a hydrogenation of a dinitrile compound.
17. (New) The process according to Claim 16, wherein the dinitrile present in the resulting reaction medium is separated before performing step a).
18. (New) The process according to Claim 11, wherein in step a), the catalyst is in the form of a stationary or fluidized bed.
19. (New) The process according to Claim 11, wherein in step a), the catalyst is in the form of a catalyst suspension.
20. (New) The process according to Claim 11, wherein in step a), the medium comprising the diamine is fed to a distillation column and a portion of the liquid stream circulating in the distillation column is withdrawn from a withdrawal point situated along the distillation column and is subjected to the hydrogenation reaction in the presence of the catalyst, said stream withdrawn after hydrogenation being fed back to the column upstream or downstream of the withdrawal point.
21. (New) The process according to one claim 20, wherein in step a) the medium is a reaction medium resulting from the synthesis of the diamine.
22. (New) The process according to Claim 21, wherein the synthesis of the diamine is a hydrogenation of a dinitrile compound.
23. (New) The process according to Claim 21, wherein the dinitrile present in the resulting reaction medium is separated before performing step a).
24. (New) The process according to Claim 21, wherein in step a), the catalyst is in

the form of a stationary or fluidized bed.

25. (New) The process according to Claim 21, wherein in step a), the catalyst is in the form of a catalyst suspension.
26. (New) The process according to Claim 11, wherein the diamine is hexamethylenediamine or methylpentanediamine.
27. (New) The process according to Claim 21, wherein the diamine is hexamethylenediamine or methylpentanediamine.